



SEQUENCE LISTING

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31 <120> METHOD FOR SCREENING ANTIMYCOTIC SUBSTANCES USING
ESSENTIAL GENES FROM S. CEREVISIAE

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<160> 191

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<210> 2

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<210> 3

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YLF275w-S1

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YLF275w-S2

<400> 4
aaagataac tgaatcacct ctaagaata gtttacttat gcataggcca ctagtggatc 60
tc 62

<210> 5
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cttcaacggg tctactttac cattctttgg ctactgact cagctgaagc ttcgtaagc 59

<210> 6
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YLF276c-S2

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tg 62

<210> 7
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YLF317w-S1

<400> 7
ctgcatactt ctgccaccac ttgtccttc tttcttgatg cagctgaagc ttcgtaagc 59

<210> 8

<211> 59
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YLR359w-S1

<401> 8
ggctattgct gagaaggaat tgggcttaac tgttggtaca cagctgaagc ttcgtaacgc 59

<211> 9
<212> 62
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<213> Artificial Sequence

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YLR359w-S2

<401> 9
aacttgactt gttcatcggt taggtacttt tggaaagggt gcataggcca ctagtggatc 60
tg 62

<211> 10
<212> 59
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YLR373c-S1

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acacacaggt acagagtgt gaaagaggat tgggtgtgac cagctgaagc ttcgtaacgc 59

<211> 11
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YLR373c-S2

<401> 11
caaacagact ttgttccttt gtatgtccta tggaagatac gcataggcca ctagtggatc 60
tg 62

<211> 11
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gagatgacat acactaatga tgccttgaaa actagtagcg cagctgaagc ttcgtacgc 59

<210> 13
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tg 62

<210> 14
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<210> 15
<211> 62
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YLR437c-S2

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catcacacac taatacagga acaaacaaga cttaatggac gcataggcca ctagtggatc 60
tg 62

<210> 16
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<212> DNA
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YLR440c-S1

<400> 16
ttgccaagaa aattgcagta aaaatgttgg aagagcaact cagctgaagc ttcgtacgc 59

<210> 17
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YLR440c-S2

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gcacaattc tagtgtgtc cattgcgatg taacaattc gcataggcca ctagtggatc 60
tg 62

<210> 18

<211> 59

<212> DNA

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YFL024c-S1

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cgatgaattt ttctgggtta tagaagagtt ctgttctgct cagctgaagc ttcgtaagc 59

<210> 19

<211> 61

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YML049c-S2

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ttctctgat cggacattc gtcgatctgg aagcagggc gcataggcca ctagtggatc 60
tg 62

<210> 20

<211> 61

<212> DNA

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<223> Description of Artificial Sequence: primer
YFL024c-S1

<400> 20

agacattcaa acgctataga gatcaatgac ggttcgcata gcataggcca ctagtggatc 60
tg 62

<210> 21

<211> 59

<212> DNA

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YFR003c-S1

4400 11
tgtggaagag gttcccgag tttgcagct tcgagcaact cagctgaagc ttcgtaagc 59

4210 12
4211 61
4212 DNA
4213 Artificial Sequence

4220
4221 Description of Artificial Sequence: primer
YFR003c-S2

4400 12
atctctttg tctacgttcg ttaaagtcaa gacctcttc gcataggcca ctagtggatc 60
tg 62

4210 13
4211 59
4212 DNA
4213 Artificial Sequence

4220
4221 Description of Artificial Sequence: primer
YFR027w-S1

4400 13
aatgaaagct aggaaatgc agagaaaagc gggcagtaaa cagctgaagc ttcgtaagc 59

4210 14
4211 61
4212 DNA
4213 Artificial Sequence

4220
4221 Description of Artificial Sequence: primer
YFR027w-S2

4400 14
atttggttg cgataccaa cttccttgct gtccctgcaca gcataggcca ctagtggatc 60
tg 62

4210 15
4211 59
4212 DNA
4213 Artificial Sequence

4220
4221 Description of Artificial Sequence: primer
YFR042w-S1

4400 15
atttgacc aatggcaata tgctytgat aaagataagg cagctgaagc ttcgtaagc 59

4210 16
4211 62
4212 DNA
4213 Artificial Sequence

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<223> Description of Artificial Sequence: primer
YFR042w-S2

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catggaagtt atttggttgc ttagattcca cgggttcaaa gcataggcca ctagtggatc 60
tc 62

<210> 27

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer
YIL109c-S1

<400> 27

ttttcatca caagaaacgt gtttaccac aagctcagct cagctgaagc ttcgtaagc 59

<210> 28

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer
YML077w-S1

<400> 27

atggggatat attcattttg gatctttgat aggcattgta cagctgaagc ttcgtaagc 59

<210> 29

<211> 62

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YIL109c-S2

<400> 29

ccatgatttg taagaattct ctgtaacttt cgttattcaa gcataggcca ctagtggatc 60
tc 62

<210> 30

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<212> DNA

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YIL091c-S1

<400> 30

agtgcagtt ctgtgaggga aaagaatgat aatttcctg cagctgaagc ttcgtaagc 59

42100 31
42110 62
42120 DNA
42130 Artificial Sequence

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42210 Description of Artificial Sequence: primer
YIL091c-S2

44000 31
cattgtaaaa ttcaggattg ttggaggct tataaaaaac gcataggcca ctagtggatc 60
tg 62

42110 30
42110 59
42120 DNA
42130 Artificial Sequence

42200
42210 Description of Artificial Sequence: primer
YIL083c-S1

44010 31
accctaccg gtgctcaaca gacctcaaat tcatacgtct cagctgaagc ttcttacgc 59

42110 31
42110 61
42120 DNA
42130 Artificial Sequence

42200
42210 Description of Artificial Sequence: primer
YIL083c-S2

44020 31
cgatgacttc tgggattatc atctcttcaa tgatatggg gcataggcca ctagtggatc 60
tg 62

42110 34
42110 59
42120 DNA
42130 Artificial Sequence

42200
42210 Description of Artificial Sequence: primer
YIL019w-S1

44030 34
ttcaaaqaaa agcttttgaa agtcagttcg gatctttaga cagctgaagc ttcttacgc 59

42110 35
42110 61
42120 DNA
42130 Artificial Sequence

42200

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YIL019w-S2

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tg 62

<100> 36
<210> 59
<211> DNA
<212> Artificial Sequence

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YIL104c-S1

<400> 36
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<100> 37
<210> 62
<211> DNA
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YIL104c-S2

<400> 37
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tg 62

<100> 38
<210> 59
<211> DNA
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YIR010w-S1

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atagctcgg aaccacaca aacggtctcc ggtaagccgc cagctgaagc ttcgtaagc 59

<100> 39
<210> 61
<211> DNA
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YML077w-S2

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tg 62

<210> 40
<211> 62
<212> DNA
<213> Artificial Sequence

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YIF010w-S1

<400> 40
accctagctc atcgactttt gtttctaact ttgtctcaac gcataggcca ctagtggatc 60
tg 62

<210> 41
<211> 64
<212> DNA
<213> Artificial Sequence

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<221> Description of Artificial Sequence: primer
YIF015w-S1

<400> 41
tcaaacaggg accatttcca tagattaaac taccttacc cagctgaagc ttogtaagc 59

<210> 41
<211> 62
<212> DNA
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<221> Description of Artificial Sequence: primer
YIF015w-S1

<400> 42
atttcacatt tttttggggt ccataacaac cgatggcatt gcataggcca ctagtggatc 60
tg 62

<210> 43
<211> 59
<212> DNA
<213> Artificial Sequence

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YPL233w-S1

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ttgtcacag gtcaptccaa aaaactggac gtaactgttg cagctgaagc ttogtaagc 59

<210> 44
<211> 62
<212> DNA
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<221> Description of Artificial Sequence: primer

YPL233w-S2

<400> 44
 taatctctct ccaggaagtc cattaagcgc ttgacstttt gcataggcca ctagtggatc 60
 tg 62

<210> 45
 <211> 52
 <212> DNA
 <213> Artificial Sequence

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 YPL146c-S1

<400> 45
 tccacataat ctaaccaaga aaccatctca atacaaacag cagctgaagc ttogtaogc 53

<210> 46
 <211> 52
 <212> DNA
 <213> Artificial Sequence

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 <221> Description of Artificial Sequence: primer
 YPL146c-S2

<400> 46
 ttgaagtc ttatgtgtcc acttttcagt gattttctgc gcataggcca ctagtggatc 60
 tg 62

<210> 47
 <211> 54
 <212> DNA
 <213> Artificial Sequence

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 YPL126w-S1

<400> 47
 atgaggaat ccttaggtat cgaacagtat aaactgtcag cagctgaagc ttogtaogc 53

<210> 48
 <211> 62
 <212> DNA
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 YPL126w-S2

<400> 48
 tatgttaata ctttcataac acgatcaaaa aatgtatcca gcataggcca ctagtggatc 60
 tg 62

<210> 49

<211> 59
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YFL093w-S1

<400> 49
caagattaca agaatcagag cgttctatat gcgtaaagtt cagctgaagc ttcgtacgc 59

<210> 50
<211> 49
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YML093w-S1

<400> 49
gtaacttaaa atatggcaaa aaagaaatct aagagcagat cagctgaagc ttcgtacgc 59

<210> 51
<211> 50
<212> DNA
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<220>
<223> Description of Artificial Sequence: primer
YFL093w-S2

<400> 51
cggaatatctg tottaccgac accacgctta ccactgaata gcataggcca ctagtggatc 60
tc 62

<210> 52
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YFL063w-S1

<400> 51
ttatggatc cagaagactt ttaacaagtt attcaagttt cagctgaagc ttcgtacgc 59

<210> 53
<211> 52
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YFL063w-S2

>400> 53
ggattcagca atcttcttct tttcttttc ctcttcaa at gcataggcca ctagtggatc 60
tg 62

>410> 54
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>412> DNA
>413> Artificial Sequence

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YPL024w-S1

>400> 54
atgtttttt catctatctt atcacaggat atcacagatg cagctgaagc ttcgtacgc 59

>410> 55
>411> 61
>412> DNA
>413> Artificial Sequence

>414>
>415> Description of Artificial Sequence: primer
YPL024w-S2

>400> 55
attgtgagt ccttcaatat gaaaacgccc ctattgaaca gcataggcca ctagtggatc 60
tg 62

>410> 56
>411> 59
>412> DNA
>413> Artificial Sequence

>414>
>415> Description of Artificial Sequence: primer
YPL020c-S1

>400> 56
tcagttgaag tagataagca ccggaacaca ctacagtatc cagctgaagc ttcgtacgc 59

>410> 57
>411> 62
>412> DNA
>413> Artificial Sequence

>414>
>415> Description of Artificial Sequence: primer
YPL020c-S2

>400> 57
tcggttaaaa tcaaattggc aataaatctt ctcatcctaa gcataggcca ctagtggatc 60
tg 62

>411> 58
>411> 59
>412> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YPL012w-S1

<400> 1

atggatcag acaaagttgc tttctttta gagctggagg cagctgaagc ttcgtaagc 59

<210> 59

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YPL012w-S1

<400> 2

attgaattc tggactttc ttattatgtt tgcaatctt gcataggcca ctagtggatc 60
tg 62

<210> 60

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YPL007c-S1

<400> 60

ccggttqtt gtcacggga catatcttta catgcgttgt cagctgaagc ttcgtaagc 59

<210> 61

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer
YML093w-S2

<400> 61

caaggaca ataatcttgc ctggcttagt catgattctc gcataggcca ctagtggatc 60
tg 62

<210> 61

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YPL007c-S2

<400> 62

ggatttattg gtagatagaa aggaatttga ggattggaag gcataggcca ctagtggatc 60
tg 62

<112> 63

<113> 64

<113> DNA

<113> Artificial Sequence

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<120> Description of Artificial Sequence: primer
YPF048w-S1

<401> 63

tgtcatcga gcaagaaaat cgtcctcctc tatggatcgg cagctgaagc ttcgtaagc 59

<112> 64

<113> 65

<113> DNA

<113> Artificial Sequence

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<120> Description of Artificial Sequence: primer
YPF048w-S2

<401> 64

attagttat ttcttcact aatctccata agtagttttg gcataggcca ctagtggatc 60
tg 62

<112> 65

<113> 69

<113> DNA

<113> Artificial Sequence

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<120> Description of Artificial Sequence: primer
YPF072w-S1

<401> 65

ttcttcaaag aaagctacaa caggatatcg ataagctttt cagctgaagc ttcgtaagc 59

<112> 66

<113> 71

<113> DNA

<113> Artificial Sequence

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<120> Description of Artificial Sequence: primer
YPF072w-S2

<401> 66

gaattggccc attctggtg gtaacttttc gatttcttta gcataggcca ctagtggatc 60
tg 62

<112> 67

<113> 69

<113> LNA

<113> Artificial Sequence

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<213> Description of Artificial Sequence: primer
YPR082c-S1

<400> 67

tttcgattgc tgaagagta aggaactttg cagttattta cagctgaagc ttcgtacgc 59

<210> 68

<211> 68

<212> DNA

<213> Artificial Sequence

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<213> Description of Artificial Sequence: primer
YPR082c-S2

<400> 68

caataaagtt caacttggtg ttgttcctg taccaaaatc gcataggcca ctagtggatc 60
tg 62

<210> 69

<211> 59

<212> DNA

<213> Artificial Sequence

<200>

<213> Description of Artificial Sequence: primer
YPR085c-S1

<400> 69

ctctacattc ttctgaaaga ctccatgctg cgaatttttg cagctgaagc ttcgtacgc 59

<210> 70

<211> 62

<212> DNA

<213> Artificial Sequence

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<213> Description of Artificial Sequence: primer
YPR085c-S2

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tg 62

<210> 71

<211> 59

<212> DNA

<213> Artificial Sequence

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<213> Description of Artificial Sequence: primer
YML114c-S1

<400> 71

aacgtgtaat tgagggactc ataaagggca atgacttcca cagctgaagc ttcgtacgc 59

4210 70
4211 59
4212 FNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YPR105c-S1

4400 71
agctgagatca tggaggggcca attgtctaaa aatctagcaa cagctgaagc ttogtaagc 59

4210 73
4211 62
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YPR105c-S2

4400 73
ctgggtttcta tcaatcttca tattcttagc ttaattctt gcataggcca ctagtggatc 60
73 62

4210 74
4211 49
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YPR112c-S1

4400 74
catatgtaag ggtttgcccg tctatctaac agatgataat cagctgaagc ttogtaagc 59

4210 75
4211 59
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YPR137c-S1

4400 75
atgttaagatg ttactcaaca gaaaaagagg aaaagatcca cagctgaagc ttogtaagc 59

4210 76
4211 62
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer

YPR112c-S2

<400> 76
gaaaccttgg ttttcttcac catccacac cagtttcttt gcataggcca ctagtggatc 60
tg 62

<210> 77
<211> 84
<212> DNA
<213> Artificial Sequence

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YPF143w-S1

<400> 77
atgggcctcca agcacagagt agacactaag gataagaaaa cagctgaagc ttcgtaagc 59

<210> 78
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YPF143w-S2

<400> 78
ttcattctgg cttcttgagg cagctttaac taaatccaaa gcataggcca ctagtggatc 60
tg 62

<210> 79
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<223> Description of Artificial Sequence: primer
YPF144c-S1

<400> 79
ttccagaaaa tgttactcaa ttggaagaag atgagacaga cagctgaagc ttcgtaagc 59

<210> 80
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YPF144c-S2

<400> 80
ccatgctaac ccaggcaagt agacgttacc ttgggatgac gcataggcca ctagtggatc 60
tg 62

<210> 81

<211> 62
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<223> Description of Artificial Sequence: primer
YML114c-S1

<400> 81
gacitgtagt agcatcgata ttggttgtgt tatgtgctac gcataggcca ctagtggatc 60
tg 62

<210> 82
<211> 89
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YPR169w-S1

<400> 81
ttttacatcc tgaactgccc attataataa ctggctttgg cagctgaagc ttogtaagc 59

<210> 81
<211> 82
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YPR169w-S2

<400> 83
ttctctgata ccattgctcat acaggtcctt ttttttggtg gcataggcca ctagtggatc 60
cc 62

<210> 84
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YML127w-S1

<400> 84
tggttaattg gtactccagt aagcgaggca ccgcccacaa cagctgaagc ttogtaagc 59

<210> 85
<211> 82
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
YML127w-S2

<400> 85
taaacccga cgtgttttcc atgtattcag acaatgetaa gcataggcca ctagtggatc 60
tg 62

<210> 86
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<223> Description of Artificial Sequence: primer
YMF032w-S1

<400> 86
taacggttat gaagcttggt tttgggaccc aaacgacaat cagctgaagc ttcgtaagc 59

<210> 87
<211> 62
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMF032w-S2

<400> 87
taggaagcta gtaaaattga tatacatoga gatcaaagac gcataggcca ctagtggatc 60
tg 62

<210> 88
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMF093w-S1

<400> 88
atgttagctg ctaggcctag aataatcact tcgaaggctc cagctgaagc ttcgtaagc 59

<210> 89
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMF093w-S2

<400> 89
aggacaaat tcagtagcgg ctctaattga gattcatctc gcataggcca ctagtggatc 60
tg 62

<210> 90
<211> 59

<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence: primer
YMF131c-S1

<401> 40
ctttaacttc cttttgccag tgaacaaaca ataattgtgg cagctgaagc ttcgtacgc 59

<212> 21
<213> 62
<214> DNA
<215> Artificial Sequence

<216>
<217> Description of Artificial Sequence: primer
YMF131c-S2

<401> 21
gtttataga ggtcaacgag gaacaagata gagtgtctc gcataggcca ctagtggatc 60
tg 62

<212> 21
<213> 59
<214> DNA
<215> Artificial Sequence

<216>
<217> Description of Artificial Sequence: primer
YMF185w-S1

<401> 20
atcaacatac acgatatatt gaatacaaga ccgaagctca cagctgaagc ttcgtacgc 59

<212> 23
<213> 67
<214> DNA
<215> Artificial Sequence

<216>
<217> Description of Artificial Sequence: primer
YMF185w-S2

<401> 23
gttaagcgtt ataaactatc tagtacggtt aaaagcttgt gcataggcca ctagtggatc 60
tg 62

<212> 24
<213> 59
<214> DNA
<215> Artificial Sequence

<216>
<217> Description of Artificial Sequence: primer
YMF212c-S1

<400> 94
ccctctgaac ttaaagaatg taaatcttca ttgcgtctt cagctgaagc ttcgtaagc 59

<210> 95
<211> 95
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMR499w-S1

<400> 95
atgagacgag aaacgggtggg tgaattttct tcagatgacg cagctgaagc ttcgtaagc 59

<210> 96
<211> 92
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMR125-S2

<400> 96
cgaatgatgt tcacaccaaa acatcagaaa ctggtcaatc gcataggcca ctagtggatc 60
tg 62

<210> 97
<211> 97
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMR113w-S1

<400> 97
ctctctgaac gccggtgtat ggaccaatgt ggaggatcag cagctgaagc ttcgtaagc 59

<210> 98
<211> 97
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMR213w-S2

<400> 97
gtgtgaactg tccaatagac tccacttttg attggatcga gcataggcca ctagtggatc 60
tg 62

<210> 99
<211> 99
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YMF218c-S1

<400> 99

gactcaaatg cattagagt atcaactcta caacttttac cagctgaagc ttcgtacgc 59

<210> 100

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YMF218c-S2

<400> 100

gaagcattt gacggaastg tacgaacggt taacaggctt gcataggcca ctagtggatc 60
ta 62

<210> 101

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YMF281w-S1

<400> 101

ctgaagaaa gttaaatgaa gatgttgagg cgtacaaagg cagctgaagc ttcgtacgc 59

<210> 102

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YMF281w-S2

<400> 101

atcagtttt gtgcatgtgt attcataagt gaaagcttgt gcataggcca ctagtggatc 60
ta 62

<210> 103

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YMF288w-S1

<400> 103

gaaaacctgc agaaagaagc tgcacgtatt ggtgagaacg cagctgaagc ttcgtacgc 59

<210> 104
<211> 62
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMR288w-S2

<400> 104
ccaaacattc taaaatacgc ataatagcat gtggtgaagt gcataggcca ctagtggatc 60
tg 62

<210> 105
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMF290c-S1

<400> 105
tcagttttac gtcttttggc atttggcggt ttccactgg cagctgaagc ttcgtacgc 59

<210> 106
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YML049c-S1

<400> 106
atttcctgca cattcaagga aagtctcagg aaattttcac cagctgaagc ttcgtacgc 59

<210> 107
<211> 62
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YMF290c-S2

<400> 107
gataagctga gcaatattaa caggagaagt atggctaccc gcataggcca ctagtggatc 60
cg 62

<210> 108
<211> 59
<212> DNA
<213> Artificial Sequence

<220>

<123> Description of Artificial Sequence: primer
YMF211w-S1

<400> 108
agagagcaaa ccatttgact actcaattct tcaatataca cagctgaagc ttcgtacgc 59

<110> 109
<111> 61
<112> DNA
<113> Artificial Sequence

<123>
<123> Description of Artificial Sequence: primer
YMF211w-S2

<400> 109
attcaatca tattactcgc tgaatcaggt tcggaatgat gcataggcca ctagtggatc 60
tc 62

<110> 110
<111> 59
<112> DNA
<113> Artificial Sequence

<123>
<123> Description of Artificial Sequence: primer
YDF196c-S1

<400> 110
atgattatga tcaaattgtg ttatacttca aggacaaaat cagctgaagc ttcgtacgc 59

<110> 111
<111> 61
<112> DNA
<113> Artificial Sequence

<123>
<123> Description of Artificial Sequence: primer
YDF196c-S2

<400> 111
tttcaatctg ttcgtataag tcaaccaatg tgctgttatt gcataggcca ctagtggatc 60
td 62

<110> 112
<111> 59
<112> DNA
<113> Artificial Sequence

<123>
<123> Description of Artificial Sequence: primer
YDF299w-S1

<400> 112
atggaaaaat cactagcgga tcaaatttcc gatatcgcca cagctgaagc ttcgtacgc 59

<110> 113

4211: 60
4212: DNA
4213: Artificial Sequence

4220:
4221: Description of Artificial Sequence: primer
YDF299w-S2

4400: 113
caagatctg gataatcatg tttttaacag cctctaattc gcataggcca ctagtggatc 60
tg 62

4210: 114
4211: 5'
4212: DNA
4213: Artificial Sequence

4220:
4221: Description of Artificial Sequence: primer
YDF365c-S1

4400: 114
cttagagaaa cccaaagaag gaaggtgtag atgctaggtt cagctgaagc ttogtaagc 59

4210: 115
4211: 5'
4212: DNA
4213: Artificial Sequence

4220:
4221: Description of Artificial Sequence: primer
YDF365c-S2

4400: 115
ttagratgct ttttattaac agatttcaac ttgcttttct gcataggcca ctagtggatc 60
tg 62

4210: 116
4211: 5'
4212: DNA
4213: Artificial Sequence

4220:
4221: Description of Artificial Sequence: primer
YDF396w-S1

4400: 116
cagataaact attgtggtgt aatctggacc ttgactgtct cagctgaagc ttogtaagc 59

4210: 117
4211: 5'
4212: DNA
4213: Artificial Sequence

4220:
4221: Description of Artificial Sequence: primer
YLR222c-S1

44008 117
ctctaaagg tagtaagcca tactacgtac aatatggatc cagctgaagc ttcgtaagc 59

4210 118
4211 62
4212 DNA
4213 Artificial Sequence

4220
4221 Description of Artificial Sequence: primer
YDR396w-S2

44009 118
tagagaaagc actgaatgat cttagcgacc gtacaaaaga gcataggcca ctagtggatc 60
tg 62

4214 119
4215 59
4216 DNA
4217 Artificial Sequence

4222
4223 Description of Artificial Sequence: primer
YDR407c-S1

44010 119
ttcttaacca ttcccaagc tatgttggcc catctaagat cagctgaagc ttcgtaagc 59

4218 120
4219 61
4220 DNA
4221 Artificial Sequence

4224
4225 Description of Artificial Sequence: primer
YDR407c-S2

44011 120
ataacagac aagataacgt ttccagagtc gaactggatt gcataggcca ctagtggatc 60
tg 62

4210 121
4211 59
4212 DNA
4213 Artificial Sequence

4226
4227 Description of Artificial Sequence: primer
YDR416w-S1

44012 121
atttccatgg aaaagatata tcgagtattg gaaagaggag cagctgaagc ttcgtaagc 59

4210 122
4211 62
4212 DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDR416w-S2

<400> 122

ttgaaataact agttctatct catctggatt aatcgaatat gcataggcca ctagtggatc 60
ta 62

<210> 1.3

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF449c-S1

<400> 123

gaatcctagg atttctaata atgtcgaaga caagatacta cagctgaagc ttcgtaagc 59

<210> 124

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF449c-S2

<400> 124

tttaattaaat ctagaatttt atacctagga tcattctctg gcataggcca ctagtggatc 60
ta 62

<210> 125

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF141c-S1

<400> 1.5

tttgtaaact ttgaattctg cgatttcacg taccagcgcg cagctgaagc ttcgtaagc 59

<210> 126

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF141c-S2

<400> 126

cactaaagcc ccttacaatt gactcaaata ataaacaact gcataggcca ctagtggatc 60
tg 62

<110> 127
<111> 59
<112> DNA
<113> Artificial Sequence

<200>
<210> Description of Artificial Sequence: primer
YDF324c-S1

<400> 127
aaqaagcctg acaatacga acaaacggg gaagatgacc cagctgaagc ttcgtacgc 59

<110> 128
<111> 61
<112> DNA
<113> Artificial Sequence

<200>
<210> Description of Artificial Sequence: primer
YMF049c-S2

<400> 128
tctgttctaa cataactagg tcaatgatgg ctaagaacaa gcataggcca ctagtggatc 60
tg 62

<110> 129
<111> 62
<112> DNA
<113> Artificial Sequence

<200>
<210> Description of Artificial Sequence: primer
YDF324c-S2

<400> 129
aaagactaac ttgggttgaa taaacgcctt ttgtttggag gcataggcca ctagtggatc 60
tg 62

<110> 130
<111> 59
<112> DNA
<113> Artificial Sequence

<200>
<210> Description of Artificial Sequence: primer
YDF325w-S1

<400> 130
gacattaata cgaaaatctt taactcagtt gctgaagtat cagctgaagc ttcgtacgc 59

<110> 131
<111> 62
<112> DNA
<113> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF325w-S1

<400> 131

aacttgctga aagattctga atccttatct tcttcattta gcataggcca ctagtggatc 60
tg 62

<210> 130

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF398w-S1

<400> 132

atgattctc ctgttctaca gtccgcttat gacccatcag cagctgaagc ttctgtacgc 59

<210> 133

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF398w-S1

<400> 133

aactgcaata tatccggctt cctcctcgcc gtcgctctgc gcataggcca ctagtggatc 60
tg 62

<210> 134

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF246w-S1

<400> 134

atggtcatcg aaacaatact tgtaataaac aaatcaggcg cagctgaagc ttctgtacgc 59

<210> 135

<211> 61

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF246w-S2

<400> 135

aacaggttag atcttatagg catttccatt gagtaagatg gcataggcca ctagtggatc 60

tg

62

<210> 136
<211> 59
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence: primer
YDF236c-S1

<400> 136
ttaaatatt gaacttgacc ctggcccat aaaaatcatt cagctgaagc ttcgtacgc 59

<210> 137
<211> 61
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence: primer
YDF236c-S2

<400> 137
ttgaagtgt gatgtttacg tggactatct atgtttcgtt gcataggcca ctagtggatc 60
tg 62

<210> 138
<211> 62
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence: primer
YDF361c-S2

<400> 138
ttgcgaagtg gaaattttctg tttccaattc atcgatactt gcataggcca ctagtggatc 60
tg 62

<210> 139
<211> 59
<212> DNA
<213> Artificial Sequence

<214>
<215> Description of Artificial Sequence: primer
YMF134w-S1

<400> 139
tgaagtgatg gtatagaaaa agaaccaaag gcgggtatgt cagctgaagc ttcgtacgc 59

<210> 140
<211> 59
<212> DNA
<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF361c-S1

<400> 140

ggcttaagcct atcaaattaa atgatttaaa aaataggaag cagctgaagc ttcgtaagc 59

<210> 141

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF367w-S1

<400> 141

atctgcgtac ttatataaat cgataccatt tccacttggt cagctgaagc ttcgtaagc 59

<210> 142

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF367w-S2

<400> 142

gttttggttt acgtcatccc tatcaactaa atatttgggg gcataggcca ctagtggatc 60
tg 62

<210> 143

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF339c-S1

<400> 143

tatcggtaaa gctaagaaaa caagaaagtt tggcctcgta cagctgaagc ttcgtaagc 59

<210> 144

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<220> Description of Artificial Sequence: primer
YDF339c-S2

<400> 144

taaaagacat ctggcaattt ttcaatgacg tatgcgtgac gcataggcca ctagtggatc 60
tg 62

<210> 145
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDF413c-S1

<400> 145
ttcttttggtt tatttttggc tcatttttgg tcaaatatct cagctgaagc ttcgtaagc 59

<210> 146
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDF413c-S2

<400> 146
acaaaagaaa gcacaagagt ttattaagga gcaggaaagg gcataggcca ctagtggatc 60
gg 62

<210> 147
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDF429c-S1

<400> 147
ctagatata tcattacata caagattgaa gacggtgtca cagctgaagc ttcgtaagc 59

<210> 148
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDF429c-S2

<400> 148
ttcttttggc tttaacgaca gaaactcttg gaatgggtgc gcataggcca ctagtggatc 60
gg 62

<210> 149
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer

YDF468c-S1

4400 149
gtcacaatac tgctggtgat gacgatcaag aggaggaaat cagctgaagc ttcgtaagc 59

4210 150
4211 62
4212 DNA
4213 Artificial Sequence

4214
4215 Description of Artificial Sequence: primer
YMF134w-S1

4400 150
tggtgtgtgtg cctacctgca tgtatgcatt tagcaattga gcataggcca ctagtggatc 60
tg 62

4210 151
4211 61
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YDF468c-S2

4400 151
caagacgaca ataagaagtc ctatacaaca atcgtcgtat gcataggcca ctagtggatc 60
tg 62

4210 152
4211 59
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YDF489w-S1

4400 152
actaccacaa gagatgcaaa tacaatagtg ggttcgtcct cagctgaagc ttcgtaagc 59

4210 153
4211 61
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YDF527w-S1

4400 153
cccacagcgc ttgtttccat aaccaaagtg catcaatagc gcataggcca ctagtggatc 60
tg 62

4210 154

<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDR288w-S1

<400> 154
atgagtctcta tagataatga cagcgatgtg gatttaacag cagctgaagc ttcgtagcg 59

<210> 155
<211> 62
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDR288w-S1

<400> 155
ggccatgatt tcttgcaacca atttttcaag agactctagt gcataggcca ctagtggatc 60
tg 62

<210> 156
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDF201w-S1

<400> 156
ggcatgtctg gactattcag agcatcatcg tcattccatac cagctgaagc ttcgtagcg 59

<210> 157
<211> 61
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDF201w-S2

<400> 157
aaaagggttt tccgttttagt tcccgaatat gatgttgaaa gcataggcca ctagtggatc 60
tg 62

<210> 158
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YDR434w-S1

4400 158
atgttccaatg caaatctaag aaaatggggtt ggtttttgcgct cagctgaagc ttcgtaagc 59

4210 159
4211 59
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YML023c-S1

4400 159
caaggaatgg tgcacattat ttgttgaac tcaactgagaa cagctgaagc ttcgtaagc 59

4210 160
4211 61
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YDR434w-S2

4400 160
taaaaggaaga tacacagata tcatgtgctc ttgtgggaag gcataggcca ctagtggatc 60
tc 62

4210 161
4211 59
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YDR181b-S1

4400 161
accataaacc caaatgctgg acatctaagg aaatctaagt cagctgaagc ttcgtaagc 59

4210 162
4211 60
4212 DNA
4213 Artificial Sequence

4220
4223 Description of Artificial Sequence: primer
YDR181c-S2

4400 162
tagtggggtt tgaatcggtta tcacgggaga acattgcttt gcataggcca ctagtggatc 60
ca 62

4210 163
4211 59
4212 DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF531w-S1

<400> 163

atgacgagaa ttactcaaga gatatttac aattgcgatt cagctgaagc ttcgtagc 59

<10> 164

<11> 62

<12> DNA

<13> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF531w-S2

<400> 164

aaataagcta ttgccaat attgttgag atggcgaata gcataggcca ctagtggatc 60
tg 62

<10> 165

<11> 62

<12> DNA

<13> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YLF186w-S1

<400> 165

atattaccca agaagaaaac cagtaaaatc gtaggtcatg cagctgaagc ttcgtagc 59

<10> 166

<11> 62

<12> DNA

<13> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YLF186w-S2

<400> 166

atataaagag gatgccagt agacttaaac actataaaat gcataggcca ctagtggatc 60
tg 62

<10> 167

<11> 62

<12> DNA

<13> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDF472w-S1

<400> 167

atgtctcaaa gaataattca accaagcgca tctgaccaac cagctgaagc ttogtacgc 59

4210: 168

4211: 59

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YLR215c-S1

440: 168

taattattg atgtctcaac aagaatatac aacttttata cagctgaagc ttogtacgc 59

4210: 169

4211: 60

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YLR215c-S2

4400: 169

actctcggga ttgcttcagg atttaaacta gcttctacga gcataggoca ctagtggatc 60

tg

62

4210: 170

4211: 59

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YMR049c-S1

4400: 170

cgactattg attactttat gaccggttag tttctttagt cagctgaagc ttogtacgc 59

4210: 171

4211: 61

4212: DNA

4213: Artificial Sequence

4220:

4221: Description of Artificial Sequence: primer

YLR243w-S2

4400: 171

gataatagg ttctataact gtcaggatta ttagattcca gcataggoca ctagtggatc 60

tg

62

4210: 172

4211: 60

4212: DNA

4213: Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YLR272c-S2

<400> 172

gctaaatgac ttcggtactt tatgagatgt cgggttttag gcataggcca ctagtggatc 60
tg 62

<210> 172

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YML023c-S2

<400> 173

ttgaattact tattttataa ttacactttt atcatgaacg gcataggcca ctagtggatc 60
tg 62

<210> 174

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YLR222c-S2

<400> 174

catatgtaac ttgttcaac taagttatca acccttgtga gcataggcca ctagtggatc 60
tg 62

<210> 175

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YDR499c-S2

<400> 175

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tg 62

<210> 176

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer
YLR317w-S2

<400> 176

gaagtaaact aactagtaaa gtaggctaatt tcgaaacgat gcataggcca ctagtggatc 60
tg 62

<210> 177
<211> 62
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<220>
<221> Description of Artificial Sequence: primer
YIP472w-S1

<400> 177
agccaaatct caaaccttcc ctgtcaagca cttgcctgtc gcataggcca ctagtggatg 60
tg 62

<210> 178
<211> 67
<212> DNA
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<220>
<221> Description of Artificial Sequence: primer
YIP489w-S1

<400> 178
atcgggcttc atctatcatg tttaagctac cttctgtatc gcataggcca ctagtggatc 60
tg 62

<210> 179
<211> 39
<212> DNA
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<220>
<221> Description of Artificial Sequence: primer
YIP527w-S1

<400> 179
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<210> 180
<211> 67
<212> DNA
<213> Artificial Sequence

<220>
<221> Description of Artificial Sequence: primer
YPR137w-S1

<400> 180
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tg 62

<210> 181
<211> 50
<212> DNA

>213> Artificial Sequence

>220>

>223> Description of Artificial Sequence: primer

>230>

>231> modified_base

>232> (27)..(32)

>233> a, t, c or g

>400> 181

gagagagaga gagagagaga actagtnnnn nntttttttt tttttttttt

50

>210> 182

>211> 13

>212> DNA

>213> Artificial Sequence

>220>

>223> Description of Artificial Sequence: primer

>230>

>231> modified_base

>232> (1)..(5)

>233> a, t, c or g

>400> 182

nnnnnggcac gag

13

>210> 183

>211> 24

>212> DNA

>213> Artificial Sequence

>220>

>223> Description of Artificial Sequence: primer PK3

>400> 183

gggggggcaa ggcctccatg gccg

24

>210> 184

>211> 32

>212> DNA

>213> Artificial Sequence

>220>

>223> Description of Artificial Sequence: primer PK4

>400> 184

gacggggcaa tggaggcctt gggggcgctg ca

32

>210> 185

>211> 40

>212> DNA

>213> Artificial Sequence

>220>

<222> Description of Artificial Sequence: primer PK9

<400> 185
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<210> 186
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer PK10

<400> 186
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<210> 187
<211> 25
<212> DNA
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<220>
<223> Description of Artificial Sequence: primer
YML114-c-Asp718

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<210> 188
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YLM114c-EcoRI

<400> 188
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<210> 189
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: primer
YML114c-BamHI

<400> 189
atcagatccg ccaacaatga cagcg 25

<210> 190
<211> 25
<212> DNA
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00200

00230 Description of Artificial Sequence: primer
YML114c-SacI

04000 190

gttgagctct gagcgtttgt ccttg

25

02100 191

02110 4

02120 PRT

02130 Artificial Sequence

00200

00230 Description of Artificial Sequence: Synthetic
peptide

04000 191

Asp Glu Ala Asp

1

B/
cont